# TRANSMITTAL LETTER TO THE UNITED STATES RECEIVING OFFICE

Date	March 17, 2004
International Application No.	
Attorney Docket No.	14.0248-PCT

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I. C∈	ertifica	tion under 37 CF	R 1.10 (if applicable)					
		76481US			Marc	h 17. 2004		
	Express Mail mailing number					D	ate of Deposit	
Post Office	to Ad	nat the application dressee" service u 1450, Alexandria,	correspondence attache under 37 CFR 1.10 on th VA 22313-1450.	d hereto is l e date indic	being deposite ated above an	d with the United d is addressed to	States Postal Se Mail Stop PCT,	ervice "Express Mail Commissioner for
	Teve	n Musti	an	1	Stev	en L. Christian		
	Signa	ture of person mai	ling correspondence		Type	d or printed name	of person mailir	ng correspondence
H. [v	J w	aw International .	Application					:
	TITLE	Marine Seis	smic Survey Method	d And Sys	tem			priority date onth/Year)
E	pur	poses of determing owing information The invention There is no p The following international a	OSURE INFORMATION ning whether a license is supplied. (Note: check disclosed was not mad rior U.S. application relat prior U.S. application(s) application. (NOTE: prior d this listing does not con	for foreign c as many b e in the Unit ting to this ir contain sub ity to these	transmittal shooxes as apply ed States.  nivention.  nject matter whapplications material	ould and could b i: ich is related to the ay or may not be	e granted and f	for other purposes, the
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C	р. 🗀	identified in pa and  DOE which would	international application aragraph C. above. The S NOT ALTER  MIG require the U.S. applicer 35 U.S.C. 181 and 37	additional si HT BE COI ation to ha	ubject matter i NSIDERED TO ive been mad	s found on pages  O ALTER the gen le available for i	eral nature of the	e invention in a manner
III.	] A	Response to an	nvitation from the RO/	US. The foll	owing docume	nt(s) is (are) encl	osed:	
A	· [	A Request for	An Extension of Time to	File a Res	ponse			
В	<sub>3.</sub> $\square$	A Power of At	torney (General or Regu	lar)				
С	;. <u> </u>	Replacement	pages:					
		pages		of the requ	est (PCT/RO/	01) pages		of the figures
		pages		of the desc		pages		of the abstract
D	). $\square$	Submission of I	Priority Documents	of the claim	15			
		Priority docum	nent I			Priority do	cument	
E			fied on attached Fee Ca	Iculation she	eet form PCT/			<u> </u>
ıv.	A	Request for Rect	ification under PCT 91		A Petition	A Sequen	ce Listing Disk	ette
٧. ٧	Ot	her (please specif	у):			Custom	er No. 249	45
	TE	Applicant		Stever	ı L. Christia	n		
The person signing this	E	Attorney/Age	nt (Reg. No.) 38,106		111	Typed name	e of signer	
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For receiving Office use only
International Application No.
International Filing Date
Name of receiving Office and "PCT International Application"

REQUEST The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty. Applicant's or agent's file reference 14.0248-PCT (if desired) (12 characters maximum) TITLE OF INVENTION Box No. I MARINE SEISMIC SURVEY METHOD AND SYSTEM APPLICANT Box No. II This person is also inventor Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Telephone No. Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.) Facsimile No. WesternGeco Seismic Holdings Ltd. P. O. Box 662 Teleprinter No. Road Town, Tortola British Virgin Islands Applicant's registration No. with the Office State (that is, country) of nationality: State (that is, country) of residence: all designated States except the United States of America This person is applicant all designated the States indicated in the Supplemental Box the United States for the purposes of: of America only Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S) Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this This person is: Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.) applicant only WELKER, Ken applicant and inventor Sundveien 17 D inventor only (If this check-box is Nesoya 1397 marked, do not fill in below.) Norway Applicant's registration No. with the Office State (that is, country) of nationality: State (that is, country) of residence: USA Norway This person is applicant all designated States except the United States of America the United States of America only the States indicated in the Supplemental Box all designated States for the purposes of: Further applicants and/or (further) inventors are indicated on a continuation sheet. AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCE Box No. IV The person identified below is hereby/has been appointed to act on behalf common representative agent of the applicant(s) before the competent International Authorities as: Name and address: (Family name followed by given name; for a legal entity, full official designation.

The address must include postal code and name of country.) Telephone No. 713-939-9444 CHRISTIAN, Steven L. Facsimile No. STREETS & STEELE 713-939-9508 13831 Northwest Frwy, Suite 355 Teleprinter No. Houston, Texas 77040 United States of America Agent's registration No. with the Office 38,106 Address for correspondence: Mark this check-box where no agent or common representative is/has been appointed and the space above is used instead to indicate a special address to which correspondence should be sent.

Continuation of Box No. III FURTHER APPLICANT(S) A	AND/OR (FURTHER)	INVENTOR(S)
If none of the following sub-boxes is used, this sheet should no	t be included in the red	quest.
Name and address: (Family name followed by given name; for a legal entity The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence TYLER, Peter 30 Dover Street Canterbury Kent CT1 3HQ United Kingdom	e address indicated in this	This person is:  applicant only  applicant and inventor inventor only (If this check-box is marked, do not fill in below.)  Applicant's registration No. with the Office
State (that is, country) of nationality: United Kingdom	State (that is, country United Kingdo	
This person is applicant all designated all designated	States except ates of America	the United States the States indicated in the Supplemental Box
Name and address: (Family name followed by given name; for a legal entit The address must include postal code and name of country. The country of th Box is the applicant's State (that is, country) of residence if no State of residenc	e address indicated in this	This person is:  applicant only  applicant and inventor  inventor only (If this check-box is marked, do not fill in below.)  Applicant's registration No. with the Office
State (that is, country) of nationality:	State (that is, country	) of residence:
This person is applicant all designated for the purposes of:	States except tees of America	the United States of America only the States indicated in the Supplemental Box
Name and address: (Family name followed by given name; for a legal entit The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residenc	e address indicated in this	This person is:  applicant only  applicant and inventor  inventor only (If this check-box is marked, do not fill in below.)  Applicant's registration No. with the Office
State (that is, country) of nationality:	State (that is, country,	of residence:
This person is applicant all designated all designated for the purposes of:		the United States of America only the States indicated in the Supplemental Box
Name and address: (Family name followed by given name; for a legal entity The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence	e address indicated in this	This person is:  applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.)  Applicant's registration No. with the Office
State (that is, country) of nationality:	State (that is, country)	of residence:
This person is applicant all designated for the purposes of:		the United States the States indicated in the Supplemental Box
Further applicants and/or (further) inventors are indicated on	another continuation s	sheet.

Sheet No. ....

Box No. V	DESIGNATION				
The filing of filing date, for	this request const or the grant of eve	titutes under Rule 4.9(a), the ery kind of protection available	e designation of all Contra ole and, where applicable,	acting States bound by the for the grant of both regi-	e PCT on the international onal and national patents.
However,		. A for a making a function	and protection		
		signated for any kind of natio			
	-	is not designated for any kin			
		is not designated for any ki		ned in order to avoid the c	ceasing of the effect, under
I tional	law of an earlier	pe used to exclude (irrevocable national application from wh in these and certain other St	tich priority to charmen.	ee the Notes to Box No. V	as to the consequences of
Box No. VI	PRIORITY (	CLAIM			
The priority	of the following	earlier application(s) is hereb	y claimed:		
Filir	ng date	Number	V	Vhere earlier application	is:
of earlier (day/me	application onth/year)	of earlier application	national application: country or Member of WTO	regional application:* regional Office	international application: receiving Office
item (1)	,				
item (2)					
nem (2)					-
item (3)					
Further	r priority claims a	are indicated in the Suppleme	ental Box.		
The receiving the earlier of above as:	ng Office is reque	ested to prepare and transmit t led with the Office which for t	to the International Bureau The purposes of this interna	шони ирричиной в инс.	
all items item (1) item (2) item (3) other, see Supplemental Box					
* Where the earlier application is an ARIPO application, indicate at least one country party to the Paris Convention for the Protection of Industrial Property or one Member of the World Trade Organization for which that earlier application was filed (Rule 4.10(b)(ii)):					
Box No. VII INTERNATIONAL SEARCHING AUTHORITY					
Choice of I	international Sea al search, indicate	arching Authority (ISA) (if the Authority chosen; the two	two or more International o-letter code may be used):	Searching Authorities are	e competent to carry out the
ISA / EF	P.O				
Request to	use results of ea	arlier search; reference to	that search (if an earlier s	search has been carried o	ut by or requestea from the
Date (day/n	al Searching Auth nonth/year)	Num	ber Cou	ntry (or regional Office)	
Roy No. V	III DECLARA	TIONS			
		are contained in Boxes Nos	. VIII (i) to (v) (mark the a	applicable	Number of
check-boxe	s below and indic	ate in the right column the nu	mber of each type of decla	ration):	declarations
Box	No. VIII (i)	Declaration as to the ident			:
<b>X</b> Box	No. VIII (ii)	Declaration as to the appl date, to apply for and be	icant's entitlement, as at t granted a patent	he international filing	: 1
Вох	No. VIII (iii)	date, to claim the priority	licant's entitlement, as at of the earlier application	1	:
Вох	No. VIII (iv)	Declaration of inventorsh United States of America	ip (only for the purposes (	of the designation of the	: 2
Box	No. VIII (v)	Declaration as to non-pre	judicial disclosures or exc	ceptions to lack of novelt	у :

heet No. 4

Box No. VIII (ii) DECLARATION: ENTITLEMENT TO APPLY FOR AND BE GRAN	NTEDA	PATENT
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The declaration must conform to the standardized wording provided for in Section 212; see Notes to Boxes Nos. VIII, VIII (i) to (v) (in general) and the specific Notes to Box No. VIII (ii). If this Box is not used, this sheet should not be included in the request.

Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent (Rules 4.17(ii) and 51bis.1(a)(ii)), in a case where the declaration under Rule 4.17(iv) is not appropriate:

in relation to this international application,

WesternGeco Seismic Holdings Ltd. is entitled to apply for and be granted a patent by virtue of the following: an assignment from

WELKER, Ken, Sundveien 17 D, Nesoya 1397, Norway

to WesternGeco Seismis Holdings Ltd., dated March 15, 2004.

and

TYLER, Peter, 30 Dover Street, Canterbury, Kent CT1 3HQ, United Kingdom to WesternGeco Seismis Holdings Ltd., dated March 13, 2004.

This declaration is made for the purposes of all designations, except for the designation of the United States of America.

This declaration is continued on the following sheet, "Continuation of Box No. VIII (ii)".

Sheet No. . . 5 . . . .

#### Box No. VIII (iv) DECLARATION: INVENTORSHIP (only for the purposes of the designation of the United States of America)

The declaration must conform to the following standardized wording provided for in Section 214; see Notes to Boxes Nos. VIII, VIII (i) to (v) (in general) and the specific Notes to Box No. VIII (iv). If this Box is not used, this sheet should not be included in the request.

## Declaration of inventorship (Rules 4.17(iv) and 51bis.1(a)(iv)) for the purposes of the designation of the United States of America:

I hereby declare that I believe I am the original, first and sole (if only	one inventor is listed below) or joint (if more than one inventor
is listed below) inventor of the subject matter which is claimed and	for which a patent is sought.
This declaration is directed to the international application of which	
This declaration is directed to international application No. PCT/ to Rule $26ter$ ).	(if furnishing declaration pursuant
I hereby declare that my residence, mailing address, and citizenship	are as stated next to my name.
I hereby state that I have reviewed and understand the contents of the of said application. I have identified in the request of said application, and I have identified below, under the heading "Prior Applications," Organization, day, month and year of filling, any application for a pate States of America, including any PCT international application design having a filing date before that of the application on which foreign p	in compliance with PCT Rule 4.10, any claim to foreign priority, by application number, country or Member of the World Trade nt or inventor's certificate filed in a country other than the United ating at least one country other than the United States of America, priority is claimed.
Prior Applications:	
	• • • • • • • • • • • • • • • • • • • •
I hereby acknowledge the duty to disclose information that is I 37 C.F.R. § 1.56, including for continuation-in-part applications, mate of the prior application and the PCT international filing date of the continuation.	erial information which became available between the filing date
I hereby declare that all statements made herein of my own knowledg are believed to be true; and further that these statements were made made are punishable by fine or imprisonment, or both, under Section false statements may jeopardize the validity of the application or any	with the knowledge that willful false statements and the like so 1001 of Title 18 of the United States Code and that such willful
Name: Ken Weiker	***************************************
Residence: Norway (city and either US state, if applicable, or country)	
Nesova 1397	
Inventor's Signature was the Weller (if not contained in the request, or if declaration is corrected or added under Rule 26ter after the filing of the international application. The signature must be that of the inventor, not that of the agent)	Date: 15 March 2004 (of signature which is not contained in the request, or of the declaration that is corrected or added under Rule 26ter after the filing of the international application)
Name:	
Residence:	
Mailing Address:	
Citizenship:	
Inventor's Signature:	Date:
This declaration is continued on the following sheet, "Continuation	on of Box No. VIII (iv)".

Continuation of Box No. VIII (iv) DECLARATION: INVENTORSHIP (only for the purposes of the designation of the USA)

The declaration must conform to the following standardized wording provided for in Section 214; see Notes to Boxes Nos. VIII, VIII (i) 10 (v) (in general) and the specific Notes to Box No.VIII (iv). If this Box is not used, this sheet should not be included in the request.

## Declaration of inventorship (Rules 4.17(iv) and 51bis.1(a)(iv)) for the purposes of the designation of the United States of America:

I hereby declare that I believe I am the original, first and sole (if only our list is the control of the subject matter which is claimed and fo	r which a patent is sought.
This declaration is directed to the international application of which it	forms a part (if filing declaration with application).
This declaration is directed to international application No. PCT/ to Rule 26ter).	(if furnishing declaration pursuant
I hereby declare that my residence, mailing address, and citizenship at	
I hereby state that I have reviewed and understand the contents of the a of said application. I have identified in the request of said application, it and I have identified below, under the heading "Prior Applications," to Organization, day, month and year of filing, any application for a patent States of America, including any PCT international application designated having a filing date before that of the application on which foreign prior to the states of t	by application number, country or Member of the World Trade to rinventor's certificate filed in a country other than the United ting at least one country other than the United States of America, iority is claimed.
Prior Applications:	
I hereby acknowledge the duty to disclose information that is ki 37 C.F.R. § 1.56, including for continuation-in-part applications, mater of the prior application and the PCT international filling date of the co	ntinuation-in-part application.
I hereby declare that all statements made herein of my own knowledge are believed to be true; and further that these statements were made we made are punishable by fine or imprisonment, or both, under Section false statements may jeopardize the validity of the application or any	of the knowledge that within false statements and the fixe so 1001 of Title 18 of the United States Code and that such willful patent issued thereon.
Name: Peter Tyler	
(oity and either US state if applicable, or country)	
Mailing Address: 30 Dover Street, Canterbury, Kent CT1 3HQ, United Kingdom	
	,.,.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Inventor's Signature: Inventor's Signature: Inventor's Signature: Inventor's Signature: Inventor's Signature: Inventor in declaration is corrected or added under Rule 26ier after the filing of the international application. The signature must be that of the inventor, not that of the agent)	Date: 13 March 2004. (of signature which is not contained in the request, or of the declaration that is corrected or added under Rule 26ter after the filing of the international application)
Name:	
Residence:	
Mailing Address:	
Citizenship:	
Inventor's Signature:	Date:
(if not contained in the request, or if declaration is corrected or added under Rule 26ter after the filing of the international application. The signature must be that of the inventor, not that of the agent)	(of signature which is not contained in the request, or of the declaration that is corrected or added under Rule 26ter after the filing of the international application)
	on of Box No. VIII (iv)"
This declaration is continued on the following sheet, "Continuation of the following sheet,"	OH OF DOA 140. YILL (14) .

tiems   paper form, the following number of sheets: request (including declaration sheets)   1   2   description (excluding sequence listing and/or tables related thereto)   66   4   copy of general power of attorney   3   description (excluding sequence listing and/or tables related thereto)   66   4   copy of general power of attorney   3   description (excluding sequence listing   1   5   statement explaining lack of signature   1   drawings   9   Sub-total number of sheets   90   sequence listing   it their of the drawings   9   sub-total number of sheets   90   sequence listing   it to be related thereto   (for both, actual number of sheets   90   form, and admitted the paper form, whether or set also filed in computer readable form (Section 801(4)(ii)   sequence listing   (ii)   aboles related thereto   (ii)   sequence listing   (iii)   aboles related thereto   (iv)   decison 801(4)(ii)   (iv)   sequence listing   (iii)   aboles related thereto   (iv)   decison 801(4)(ii)   (iv)   sequence listing   (iii)   aboles related thereto   (iv)   decison 801(4)(ii)   (iv)   sequence listing   (iii)   aboles related thereto   (iv)   decison 801(4)(iii)   (iv)   sequence listing   (iv)   decison 801(4)(iii)   (iv)   sequence listing   (iv)   decison 801(4)(iv)   (iv)   de	Box No. IX CHECK LIST; LANGUAGE O		
tiems   paper form, the following number of sheets:   request (including   colaration sheets)   1   25   fee calculation sheet   1   1   26   fee calculation sheet   1   2   2   2   2   2   2   2   2   2		OF FILING	
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description (receitating sequence issing another tables related thereto)	request (including	1. 🗶 fee calculation sheet	: 1
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tables related thereto)   66   claims   7   sharted   7   claims   7   sharted   7   claims   7   sharted   7   claims   7	sequence listing and/or		;
Solutional number of sheets   90	tables related thereto) : 66	4. copy of general power of attorney; reference number,	
Sub-total number of sheets:  90 Sub-total number of sheets:  90 Sub-total number of sheets:  90 sequence listing  10 only in computer readable form (Section 801(a)(ii)) (i)   sequence listing (iii)   tables related thereto (c)   also in computer readable form (Section 801(a)(iii)) (i)   sequence listing (iii)   tables related thereto (c)   also in computer readable form (Section 801(a)(iii)) (i)   sequence listing (iii)   tables related thereto (c)   also in computer readable form (Section 801(a)(iii)) (i)   sequence listing (iii)   tables related thereto (c)   also in computer readable form (Section 801(a)(iii)) (i)   sequence listing (iii)   tables related thereto (c)   also in computer readable form (Section 801(a)(iii)) (ii)   sequence listing (iii)   tables related thereto (c)   also in computer readable form (Section 801(a)(iii)) (iii)   stables related thereto (c)   also in computer readable form (Section 801(a)(iii)) (iii)   stables related thereto (section 801(a)(iii)) (sequence listing (since stated thereto (section 801(a)(iii) (since stated thereto (section 801(a)(iii) (since stated thereto (section 801(a)			
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Section 80 (a)(iii)			
Section 802(b-quater) only (and not as part of the international application)  Type and number of carriers (diskette, CDROM, CD-R or other) on which are contained the contained the sequence listing: (only where check-box (b)(ii) or (c)(ii) is marked in left column) additional copies in cluding, where applicable, the copy for the purposes of international search under Section 802(b-quater): (iii)   dogether with relevant statement as to the identity of the copy or copies with the tables mentioned in left column items 9(ii) and/or 10(ii), in right column  11. In the company the abstract: 2   Language of filing of the international application:   Language of filing		(indicate type and number of carriers)	
sequence listing:	11	Section 802(b-quater) only (and not as part of the inter	national :
sequence listing:	CD-ROM, CD-R or other) on which are	(ii) (iii) (only where check-box (b)(ii) or (c)(ii) is marked in left co additional copies including, where applicable, the copy	lumn) y for the
Contracted dated under   11.	sequence listing:	(iii) together with relevant statement as to the identity of the	
Should accompany the abstract:  International application:  Box No. X SIGNATURE OF APPLICANT, AGENT OR COMMON REPRESENTATIVE  Next to each signature, indicate the name of the person signing and the capacity in which the person signs (if such capacity is not obvious from reading the request).  Steven L. Christian  For receiving Office use only  1. Date of actual receipt of the purported international application:  3. Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application:  4. Date of timely receipt of the required corrections under PCT Article 11(2):  5. International Searching Authority (if two or more are competent): ISA / EPO  For International Bureau use only  For International Bureau use only	(additional copies to be indicated under	11. 🛮 other (specify): Assignment.	: 1
Steven L. Christian  For receiving Office use only  Date of actual receipt of the purported international application:  Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application:  Date of timely receipt of the required corrections under PCT Article 11(2):  International Searching Authority (if two or more are competent): ISA / EPO  For International Bureau use only  In this indicate the name of the person signing and the capacity in which the person signs (if such capacity is not obvious from reading the request).  2. Drawings:			
Steven L. Christian  For receiving Office use only  Date of actual receipt of the purported international application:  Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application:  Date of timely receipt of the required corrections under PCT Article 11(2):  International Searching Authority (if two or more are competent): ISA / EPO  For International Bureau use only		international application.	
Por receiving Office use only  Date of actual receipt of the purported international application:  Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application:  Date of timely receipt of the required corrections under PCT Article 11(2):  International Searching Authority (if two or more are competent): ISA / EPO  For International Bureau use only  Por International Survey of the purported international search copy delayed until search fee is paid			n reading the request).
2. Drawings: international application:  3. Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application:  4. Date of timely receipt of the required corrections under PCT Article 11(2):  5. International Searching Authority (if two or more are competent): ISA / EPO  6. Transmittal of search copy delayed until search fee is paid  For International Bureau use only	Steven L. Christian		
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corrections under PCT Article 11(2):  5. International Searching Authority (if two or more are competent): ISA / EPO  6. Transmittal of search copy delayed until search fee is paid  For International Bureau use only	timely received papers or drawings completing	g	
(if two or more are competent): ISA / EPO	the purported international application:		<del></del>
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Date of receipt of the record copy	4. Date of timely receipt of the required corrections under PCT Article 11(2):  5. International Searching Authority	PO  6. Transmittal of search copy delayed until search fee is paid	not received:
	<ol> <li>Date of timely receipt of the required corrections under PCT Article 11(2):</li> <li>International Searching Authority (if two or more are competent): ISA / EF</li> </ol>	PO until search fee is paid	not received:

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